AUTHOR INDEX

Anderson, Thomas W., Preventative maintenance and energy survey with a pyroelectric vidicon system, 141
Baker, Doran J., Computer-aided design of optimal infrared detector preamplifiers, 39
Black, G. M., Multi-color infrared detectors, 2
Bouley, A. C., Multi-color infrared detectors, 2
Bright, Clark I., Applications of electrically conductive coatings in infrared instruments, 59
Chang, I. C., Computer controlled infrared tunable acousto-optic filter (TAOF) spectrometer, 121
Cornette, William M., Test facility for the measurement of infrared radiation from jet engine exhaust systems, 96
Estrin, S., Computer controlled infrared tunable acousto-optic filter (TAOF) spectrometer, 121
Foti, S., Multi-color infrared detectors, 2
Frodsham, D. Gary, Computer-aided design of optimal infrared detector preamplifiers, 39
———, Rocket-borne liquid-helium-cooled circular-variable filter spectrometer, 54
Gibbs, A. J., Developments in high-speed pyroelectric detectors, 10
Griffiths, David H., Toward quantitative industrial thermography, 152
Gutin, Michael D., Detecting failure mechanisms in current-carrying equipment utilizing both an infrared line scanner and an infrared imager, 130
Harris, James S., Profiling focused CO_2 high energy laser (HEL) μSEC pulses with a pyroelectric vidicon camera, 164
Horstmann, Paul H., Ultraviolet/infrared imaging system, 157
Hunneman, R., Temperature-invariant and other narrow-band IR filters containing PbTe, 4-20 μm, 83
Jensen, J. D., Multi-color infrared detectors, 2
Junting, Lin, Infrared in North China Research Institute of Electro-Optics (NCRIEO), 48
Kates, John C., Ultraviolet/infrared imaging system, 157
Katzka, P., Computer controlled infrared tunable acousto-optic filter (TAOF) spectrometer, 121
LeVan, Paul D., Preamplifier noise in indium antimonide detector systems, 34
McLellan, E. J., Developments in high-speed pyroelectric detectors, 10
Mersch, Steven H., Profiling focused CO_2 high energy laser (HEL) μSEC pulses with a pyroelectric vidicon camera, 164
Morse, David E., Radiometric instrumentation for high-altitude balloon atmospheric measurements, 116
Mullen, Donald L., Profiling focused CO_2 high energy laser (HEL) μSEC pulses with a pyroelectric vidicon camera, 164
Murphy, John K., Effects of surface and thin-film anomalies on miniature infrared filters, 64
Nagler, M., Conceptual design of a spaceborne lightning sensor, 22
Petrie, G., Computer controlled infrared tunable acousto-optic filter (TAOF) spectrometer, 121
Price, William R., Ultraviolet/infrared imaging system, 157
Rex, John D., Design characteristics of Michelson interferometers used on the AFGL NKC-135 infrared flying laboratory, 109
Schummers, John H., Design characteristics of Michelson interferometers used on the AFGL NKC-135 infrared flying laboratory, 109
Seeley, J. S., Temperature-invariant and other narrow-band IR filters containing PbTe, 4-20 μm, 83
Smith, David C., Routine testing of diamond-turned optics using a 10.6 micron interferometer, 103
Stotlar, S. C., Developments in high-speed pyroelectric detectors, 10
Walker, Ronald P., Design characteristics of Michelson interferometers used on the AFGL NKC-135 infrared flying laboratory, 109
Warren, Cliff, Digital analysis of infrared imagery, 144
Webb, J., Developments in high-speed pyroelectric detectors, 10
Whatley, A., Temperature-invariant and other narrow-band IR filters containing PbTe, 4-20 μm, 83
Wolfe, W. L., Conceptual design of a spaceborne lightning sensor, 22
Wurtz, Howard P., Design guidelines for thermoelectrically cooled infrared detectors, 15
Zhonglan, Wu, Infrared in North China Research Institute of Electro-Optics (NCRIEO), 48

SUBJECT INDEX

AFGL NKC-135 infrared flying laboratory, design characteristics of Michelson interferometers used on the, 109
Acousto-optic filter (TAOF) spectrometer, computer controlled infrared tunable, 121
Altitude balloon atmospheric measurements, radiometric instrumentation for high-, 116
Analysis of infrared imagery, digital, 144
Anomalies on miniature infrared filters, effects of surface and thin-film, 64
Antimonide detector systems, preamplifier noise in indium, 34
Applications of electrically conductive coatings in infrared instruments, 59
Atmospheric measurements, radiometric instrumentation for high-altitude balloon, 116

Balloon atmospheric measurements, radiometric instrumentation for high-altitude, 116
Band IR filters containing PbTe, 4-20 μm, temperature-invariant and other narrow-, 83

CO_2 high energy laser (HEL) μSEC pulses with a pyroelectric vidicon camera, profiling focused, 164
Camera, profiling focused CO_2 high energy laser (HEL) μSEC pulses with a pyroelectric vidicon, 164
China Research Institute of Electro-Optics (NCRIEO), infrared in North, 48
Circular-variable filter spectrometer, rocket-borne liquid-helium-cooled, 54
Coatings in infrared instruments, applications of electrically conductive, 59
Computer-aided design of optimal infrared detector preamplifiers, 39
Computer controlled infrared tunable acousto-optic filter (TAOF) spectrometer, 121
Conceptual design of a spaceborne lightning sensor, 22
Conductive coatings in infrared instruments, applications of electrically, 59
Controlled infrared tunable acousto-optic filter (TAOF) spectrometer, computer, 121
Cooled circular-variable filter spectrometer, rocket-borne liquid-helium-, 54
Cooled infrared detectors, design guidelines for thermoelectrically, 15
Current-carrying equipment utilizing both an infrared line scanner and an infrared imager, detecting failure mechanisms in, 130

Design characteristics of Michelson interferometers used on the AFGL NKC-135 infrared flying laboratory, 109
Design guidelines for thermoelectrically cooled infrared detectors, 15
Design of optimal infrared detector preamplifiers, computer-aided, 39
Design of a spaceborne lightning sensor, conceptual, 22
Detecting failure mechanisms in current-carrying equipment utilizing both an infrared line scanner and an infrared imager, 130
Detector preamplifiers, computer-aided design of optimal infrared, 39
Detector systems, preamplifier noise in indium antimonide, 34
Detectors, design guidelines for thermoelectrically cooled infrared, 15
Detectors, developments in high-speed pyroelectric, 10
Detectors, multi-color infrared, 2
Developments in high-speed pyroelectric detectors, 10
Diamond-turned optics using a 10.6 micron interferometer, routine testing of, 103
Digital analysis of infrared imagery, 144

Effects of surface and thin-film anomalies on miniature infrared filters, 64
Electrically conductive coatings in infrared instruments, applications of, 59
Electro-Optics (NCRIEO), infrared in North China Research Institute of, 48
Energy laser (HEL) μSEC pulses with a pyroelectric vidicon camera, profiling focused CO_2 high, 164
Energy survey with a pyroelectric vidicon system, preventative maintenance and, 141
Engine exhaust systems, test facility for the measurement of infrared radiation from jet, 96
Exhaust systems, test facility for the measurement of infrared radiation from jet engine, 96

Failure mechanisms in current-carrying equipment utilizing both an infrared line scanner and an infrared imager, detecting, 130
Filter spectrometer, rocket-borne liquid-helium-cooled circular-variable, 54
Filter (TAOF) spectrometer, computer controlled infrared tunable acousto-optic, 121
Filters containing PbTe, 4-20 μm, temperature-invariant and other narrow-band IR, 83
Filters, effects of surface and thin-film anomalies on miniature infrared, 64
Flying laboratory, design characteristics of Michelson interferometers used on the AFGL NKC-135 infrared, 109
Focused CO_2 high energy laser (HEL) μSEC pulses with a pyroelectric vidicon camera, profiling, 164

Guidelines for thermoelectrically cooled infrared detectors, design, 15

(HEL) μSEC pulses with a pyroelectric vidicon camera, profiling focused CO_2 high energy laser, 164
Helium-cooled circular-variable filter spectrometer, rocket-borne liquid-, 54
High-altitude balloon atmospheric measurements, radiometric instrumentation for, 116
High energy laser (HEL) μSEC pulses with a pyroelectric vidicon camera, profiling focused CO_2, 164
High-speed pyroelectric detectors, developments in, 10

IR filters containing PbTe, 4-20 μm, temperature-invariant and other narrow-band, 83
Imager, detecting failure mechanisms in current-carrying equipment utilizing both an infrared line scanner and an infrared, 130
Imagery, digital analysis of infrared, 144
Imaging system, ultraviolet/infrared, 157
Indium animonide detector systems, preamplifier noise in, 34
Industrial thermography, toward quantitative, 152
Infrared detector preamplifiers, computer-aided design of optimal, 39
Infrared detectors, design guidelines for thermoelectrically cooled, 15
Infrared detectors, multi-color, 2
Infrared filters, effects of surface and thin-film anomalies on miniature, 64
Infrared flying laboratory, design characteristics of Michelson interferometers used on the AFGL NKC-135, 109
Infrared imager, detecting failure mechanisms in current-carrying equipment utilizing both an infrared line scanner and an, 130
Infrared imagery, digital analysis of, 144
Infrared imaging system, ultraviolet/, 157
Infrared instruments, applications of electrically conductive coatings in, 59
Infrared line scanner and an infrared imager, detecting failure mechanisms in current-carrying equipment utilizing both an, 130
Infrared in North China Research Institute of Electro-Optics (NCRIEO), 48
Infrared radiation from jet engine exhaust systems, test facility for the measurement of, 96
Infrared tunable acousto-optic filter (TAOF) spectrometer, computer controlled, 121
Institute of Electro-Optics (NCRIEO), infrared in North China Research, 48
Instrumentation for high-altitude balloon atmospheric measurements, radiometric, 116
Interferometer, routine testing of diamond-turned optics using a 10.6 micron, 103
Interferometers used on the AFGL NKC-135 infrared flying laboratory, design characteristics of Michelson, 109
Invariant and other narrow-band IR filters containing PbTe, 4-20 μm, temperature, 83

Jet engine exhaust systems, test facility for the measurement of infrared radiation from, 96

Laboratory, design characteristics of Michelson interferometers used on the AFGL NKC-135 infrared flying, 109
Laser (HEL) μSEC pulses with a pyroelectric vidicon camera, profiling focused CO_2 high energy, 164
Lightning sensor, conceptual design of a space-borne, 22
Line scanner and an infrared imager, detecting failure mechanisms in current-carrying equipment utilizing both an infrared, 130
Liquid-helium-cooled circular-variable filter spectrometer, rocket-borne, 54

Maintenance and energy survey with a pyroelectric vidicon system, preventative, 141
Mechanisms in current-carrying equipment utilizing both an infrared line scanner and an infrared imager, detecting failure, 130
Michelson interferometers used on the AFGL NKC-135 infrared flying laboratory, design characteristics of, 109
Micron interferometer, routine testing of diamond-turned optics using a 10.6, 103
μSEC pulses with a pyroelectric vidicon camera, profiling focused CO_2 high energy laser (HEL), 164
Miniature infrared filters, effects of surface and thin-film anomalies on, 64
Multi-color infrared detectors, 2

(NCRIEO), infrared in North China Research Institute of Electro-Optics, 48
Narrow-band IR filters containing PbTe, 4-20 μm, temperature-invariant and other, 83
Noise in indium antimonide detector systems, preamplifier, 34
North China Research Institute of Electro-Optics (NCRIEO), infrared in, 48

Optic filter (TAOF) spectrometer, computer controlled infrared tunable acousto-, 121
Optics (NCRIEO), infrared in North China Research Institute of Electro-, 48
Optics using a 10.6 micron interferometer, routine testing of diamond-turned, 103
Optimal infrared detector preamplifiers, computeraided design of, 39

PbTe, 4-20 μm, temperature-invariant and other narrow-band IR filters containing, 83
Preamplifier noise in indium antimonide detector systems, 34
Preamplifiers, computer-aided design of optimal infrared detector, 39
Preventative maintenance and energy survey with a pyroelectric vidicon system, 141
Profiling focused CO_2 high energy laser (HEL) μSEC pulses with a pyroelectric vidicon camera, 164
Pulses with a pyroelectric vidicon camera, profiling focused CO_2 high energy laser (HEL) μSEC, 164
Pyroelectric detectors, developments in high-speed, 10
Pyroelectric vidicon camera, profiling focused CO_2 high energy laser (HEL) μSEC pulses with a, 164
Pyroelectric vidicon system, preventative maintenance and energy survey with a, 141

Quantitative industrial thermography, toward, 152

Radiation from jet engine exhaust systems, test facility for the measurement of infrared, 96
Radiometric instrumentation for high-altitude balloon atmospheric measurements, 116
Research Institute of Electro-Optics (NCRIEO), infrared in North China, 48
Rocket-borne liquid-helium-cooled circular-variable filter spectrometer, 54
Routine testing of diamond-turned optics using a 10.6 micron interferometer, 103

Scanner and an infrared imager, detecting failure mechanisms in current-carrying equipment utilizing both an infrared line, 130
Sensor, conceptual design of a spaceborne lightning, 22
Spaceborne lightning sensor, conceptual design of a, 22
Spectrometer, computer controlled infrared tunable acousto-optic filter (TAOF), 121
Spectrometer, rocket-borne liquid-helium-cooled circular-variable filter, 54
Speed pyroelectric detectors, developments in high-, 10
Surface and thin-film anomalies on miniature infrared filters, effects of, 64
Survey with a pyroelectric vidicon system, preventative maintenance and energy, 141

(TAOF) spectrometer, computer cotrolled infrared tunable acousto-optic filter, 121

Temperature-invariant and other narrow-band IR filters containing PbTe, 4-20 μm, 83
10.6 micron interferometer, routine testing of diamond-turned optics using a, 103
Test facility for the measurement of infrared radiation from jet engine exhaust systems, 96
Thermoelectrically cooled infrared detectors, design guidelines for, 15
Thermography, toward quantitative industrial, 152
Thin-film anomalies on miniature infrared filters, effects of surface and, 64
Toward quantitative industrial thermography, 152
Tunable acousto-optic filter (TAOF) spectrometer, computer controlled infrared, 121
Turned optics using a 10.6 micron interferometer, routine testing of diamond-, 103

Ultraviolet/infrared imaging system, 157

Variable filter spectrometer, rocket-borne liquid-helium-cooled circular-, 54
Vidicon camera, profiling focused CO_2 high energy laser (HEL) μSEC pulses with a pyroelectric, 164
Vidicon system, preventative maintenance and energy survey with a pyroelectric, 141